

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 059

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS AT LOW TO MODERATE LEVELS DURING THE PAST 24 HOURS. AN M1/1B FLARE AT 272115Z (MAX) OCCURRED IN REGION 4421 (N16W67). REGION 4421 IS STILL A LARGE D TYPE SPOT GROUP ALTHOUGH SOME OF ITS MAGNETIC COMPLEXITY MAY HAVE DECAYED. ITS H-ALPHA PLAGE REMAINS WELL ORGANIZED WHILE FLUCTUATING IN BRIGHTNESS INTENSITY. REGION 4423 (S12W03) HAS RESUMED GROWING AND MAY ONCE AGAIN BE A SMALL E TYPE GROUP. THE PLAGE WITH THIS REGION IS SCATTERED, STABLE AND ONLY MODERATELY BRIGHT. REGION 4427 (S15E63) ROTATED INTO VIEW TODAY AS A SMALL BI-POLAR REGION. REGION 4422 (N12W42) HAS BEEN RELATIVELY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW TO MODERATE LEVELS WITH REGIONS 4421, 4422 AND 4423 ALL POSSIBLE SOURCES FOR ISOLATED M ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE WITH BRIEF STORM CONDITIONS DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS. RECURRENCE PATTERNS WITH CORONAL HOLE INFLUENCE ARE PROBABLE FACTORS FOR AFFECTING THE FIELD.

III. EVENT PROBABILITIES 29 FEB-02 MAR

CLASS M 50/50/50

CLASS X 05/01/01

PROTON 01/01/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 FEB 152

PREDICTED 29 FEB-02 MAR 146/137/133

90 DAY MEAN 28 FEB 116

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 FEB 033/032

ESTIMATED AFR/AP 28 FEB 013/020

PREDICTED AFR/AP 29 FEB-02 MAR 013/020-015/020-015/020

SOLTERWARN

BT